

ABSTRACT

A system and method for inserting pre-cast concrete pile caps under wooden railroad bridges without removing essential load bearing rails, cross-ties, and stringers is disclosed. The system and method minimizes the time that the track is closed to normal rail traffic. The system and method uses recycled oil well drill pipes that are cast into pile caps so that female-threaded ends are flushed with an upper surface of the pile caps. Lifting rods have male threaded ends that are used with a multi-point lifting device that allows the pile cap to be slipped under the existing bridge in a number of small incremental steps utilizing the spaces between wooden bridge stringers.